

IDAHO

DEPARTMENT OF FISH AND GAME

Jerry M. Conley, Director

SANDPOINT HATCHERY

Annual Report



1 October 1981 - 30 September 1982

by

Bill Carter
Fish Hatchery Superintendent I

November 1983

TABLE OF CONTENTS

	<u>Page</u>
ABSTRACT	1
OBJECTIVES	2
INTRODUCTION	2
FISH PRODUCTION	2
Fish Produced	3
FISH RELEASES	4
Brook Trout	4
Brown Trout	4
Kokanee Salmon	4
Kamloop Trout	5
FISH TRANSFERS	5
FISH HEALTH	6
FISH FEED UTILIZATION	6
HATCHERY NEEDS	7
HATCHERY IMPROVEMENTS	7
ACKNOWLEDGEMENTS	7

SANDPOINT HATCHERY

ABSTRACT

In November and December, 1981, we received 2,043,654 kokanee salmon eggs from Granite Creek. In April, May and June, 1982, we received 236,872 eyed Kamloop trout eggs from the Clark Fork Hatchery. The loss through swim-up on the Kamloops was about 25%.

There were 89,378 Kings Lake cutthroat trout transferred in May, including 75,850 transported to the State of Washington and 13,528 transferred to the Clark Fork Hatchery. We transferred 67,320 brook trout to the Eagle Hatchery in September 1982.

During the year, we produced 1,937,549 cutthroat, brown, brook and Kamloop trout and kokanee salmon weighing 7,714.2 pounds. At the end of the fish year, a total of 172,393 Kamloop trout and kokanee salmon were on hand at the hatchery.

There were no disease problems whatsoever during the year.

Author:

Bill Carter
Fish Hatchery Superintendent I

OBJECTIVES

1. Raise and release an average of 1,736 pounds of 0-4 inch kokanee salmon per year. In past years most of the kokanee have been released in Granite Creek, a tributary to Pend Oreille Lake. We have released an average of 1,875,000 kokanee per year.
2. Raise and release an average of 525 pounds of 3 to 6 inch Kamloops rainbow trout per year to be released at Cabinet Gorge. This is an average of 100,000 fish.
3. Raise an average of 50,000 0 to 3 inch Kamloops rainbow trout weighing 25 pounds and release them into 12 to 15 mountain lakes.

INTRODUCTION

Sandpoint Hatchery is located in Bonner County, five miles south of Sandpoint on the Pend Oreille River. The Sandpoint Hatchery receives its water supply from springs located approximately 4/10 of a mile south of the hatchery. We have 1.2 cfs of water available to use. Hatchery facilities include 7 double stacks of incubators and two short stacks along with eight round incubators, 18 vats, 13 ft long x 2 1/2 ft. deep and two 5 ft. x 100 ft. raceways. The hatchery is capable of raising 7,275 pounds of yearling fish; however, most of the production is now taken up by about 1,875,000 kokanee at 2000 per pound and 150,000 Kamloops at up to 150 per pound.

FISH PRODUCTION

Sandpoint Hatchery received the following eggs:

Months of November and December 1981: We received 2,043,654 green kokanee eggs from the trap on Granite Creek. There was a pick-off of 133,980 eggs at the eyed stage, yielding an eye-up percentage of 93.5%.

Months of April, May and June 1982: We received 236,872 eyed Kamloop eggs from the Clark Fork Hatchery. The loss through swim-up was about 25%.

FISH PRODUCED

The hatchery produced a total of 1,937,549 fish in 1982 that weighed 7,714.2 pounds, as indicated below.

Species	Number	Pounds
Cutthroat Trout	88,507	649.7
Brown Trout	3,861	594.0
Brook Trout	248,674	3,989.0
Kokanee Salmon	1,548,130	2,391.0
Kamloop Trout	48,377	90.5
TOTAL	1,937,549	7,714.2

At the beginning of the fish year 1982 we had the following fish on hand:

Species	Number
King's Lake Cutthroat Trout	290,521
Brook Trout	64,203
Brown Trout	4,296
TOTAL	359,020

At the end of the fish year we had the following fish on hand:

Species	Pounds	Number
Kamloop Trout	205	152,558
Brook Trout		None
Kokanee Salmon	57	19,835
TOTAL ON HAND	262	172,393

FISH RELEASES

The following releases were made from Sandpoint Hatchery during the fish year.

BROOK TROUT

Size	Number of Fish	Name of Water
3 to 6 inches	33,290	McArthur Reservoir
	16,500	Mirror Lake
	4,720	Perkins Lake
	990	Carr Cr. Pond
	10,620	Spirit Lake
	10,620	Bloom Lake
	3,760	Moose Cr. Reservoir
	3,525	Campbells Pond
	51,408	McArthur Reservoir
	2,004	Beaver Lake
	3,344	Grangeville Pond
	5,168	Texas Creek
TOTAL	145,949	

BROWN TROUT

We planted 3,861 brown trout in Hoodoo Creek.

KOKANEE SALMON

Size	Number of Fish	Name of water
0 to 3 inches	1,174,486	Granite Creek
	3,328	Lower Twin Lakes
	1,672	Jewel Lake
	1,672	Mirror Lake
	<u>2,496</u>	Brush Lake
SUBTOTAL	1,183,654	

Plants made by Lake Pend Oreille Idaho Club

	25,080	Hoodoo Creek
	21,318	Upper Pack River
	8,360	Gamblin Creek
	8,360	Schweitzer Creek
	8,360	Sand Creek
	7,733	Grouse Creek
	10,659	East River
	21,318	Priest River
	8,360	Strong Creek

SUBTOTAL 119,548

GRAND TOTAL 1,303,199

KAMLOOP TROUT

Size	Number of Fish	Name of Water
0 to 3 inches	15,656	Hidden Lake
	3,296	Pyramid Lake
	3,296	Trout Lake
	3,040	Solomon Lake
	2,432	Spruce Lake
	3,648	Hunt Lake
	3,648	West Fork Lake
	1,992	Estelle Lake
	6,972	Harrison Lake
	3,128	Callahan Lake
	1,296	Porcupine Lake
TOTAL	48,404	

FISH TRANSFERS

On May 14, 205 pounds of King's Lake cutthroat trout averaging 205 fish per pound (a total of 75,850 fish) were transferred to the State of Washington.

On May 18, 89 pounds of King's Lake cutthroat trout averaging 152 fish per pound (a total of 13,528 fish) were transferred to Clark Fork Hatchery.

On September 23, 495 pounds of brook trout averaging 136 fish per pound (a total of 67,320 fish) were transferred to the Eagle Hatchery.

Species	Number of Fish	Transferred to
Brook Trout	67,320	Eagle Hatchery
King's Lake Cutthroat	75,850	State of Washington
King's Lake Cutthroat	13,528	Clark Fork Hatchery

FISH HEALTH

We had no problems with diseases, either major or minor.

The following is a list of the total mortalities by species:

Size	Species	Loss
0-3 inches	Cutthroat Trout	366,608
3-6 inches	Cutthroat Trout	5,711
0-3 inches	Kamloop Trout	11,635
0-3 inches	Brook Trout	71,710
3-6 inches	Brook Trout	1,335
6 and over	Brown Trout	436
0-3 inches	Kokanee Salmon	267,563
TOTAL		724,998

FISH FEED UTILIZATION

We fed a total of 7,750 pounds of Oregon Moist Pellets, at a total cost of \$2,782.62. The breakdown of pounds per size is as

follows:

Feed Size	Pounds
1/32 inch Oregon Moist	1,900
3/64	1.600
1/16	1.250
1/8	1.350
5/32	1.650
TOTAL	7.750

The pounds of feed per pound of fish produced was 1.01. The fish feed cost per pound of fish produced was .361¢.

HATCHERY NEEDS

The metal roof on the hatchery building has been leaking badly since the electric heaters were installed. The snow melts and forms large icicles along the eaves. This causes a back-up and water comes inside along the walls. There are many other leaks scattered all over the roof. Shop tools and other things are getting rusty. It is hard to keep things dry and out of the drips. If new corrugated roofing were installed on top of the old metal, it would leave space for more insulation and prevent ice build-up. Also the snow would slide off on warm days. With the raised ribs on the old roof the snow never slips and the wind piles the snow up in between the ribs every time it blows.

HATCHERY-IMPROVEMENTS

RACEWAYS - Between August 27 and August 29, the two 5 ft. wide by 100 ft. long raceways were sandblasted and covered with two coats of epoxy paint.

HATCHERY - All 3 inch steel pipe supplying the incubators with water was replaced with PVC pipe. In order to accomodate double stacks of incubators, the pipe was raised 35 inches. The hatchery now has 7 double stacks and 2 single stacks of incubators along with 8 round incubators, replacing the 10 single stacks we had before. This gives us the ability to hatch and rear 2.5 million kokanee. We can now eye-up 5.5 million kokanee eggs.

TRESTLE - In September, Janice and I worked 3 days replacing worn and broken walk boards on the trestle. This structure holds up the supply pipe line as it crosses Murphy Creek.

OFFICE - During August, the office walls were repainted and in November, Tom Frew and Dave Parrish finished the job by painting the trim.

ACKNOWLEDGEMENTS

The hatchery staffing during the fish year included Bill Carter, Fish Hatchery Superintendent I,, full time; Kelli Lynn Goss, Laborer, from January 25 through April 30; Nancy R. Holt, Laborer, from May 10 through August 15; Janice Kile, CETA employee, from June 8 through August 20; and Janice Kile, Laborer, from August 23 through September 30.